PROJECT NUMBER: 8101
PROJECT TITLE: Cigarette Testing Services Division
SECTION LEADER: Jane Y. Lewis
PERIOD COVERED: April, 1989

I. MARKET ACTIVITY

A. Objective: To monitor and report new brand introductions and brand modifications for the domestic and international cigarette markets.

B. Results:

1. Domestic

R. J. Reynolds is distributing Doral Ultra Lights 85 and Magna Lites 80 (Box) cigarettes nationally. The Doral Ultra cigarette delivers 5 mg tar and 0.4 mg nicotine; the Magna Lites 80 (Box) cigarette delivers 9 mg tar and 0.6 mg nicotine. Both of these new value entry products are extensions of their respective brand families.

Lorillard is test marketing Spring Lemon Lights 85 and 100 (plain and menthol) cigarettes in Connecticut. The 85 mm cigarette delivers 9 mg tar and 0.7 mg nicotine; the 100 mm cigarette delivers 11 mg tar and 0.8 mg nicotine. Citral is the source of the lemon flavoring in these products.

The American Tobacco Co. is test marketing American Filter 85 and 100 cigarettes in Illinois. These value entry cigarettes deliver 16 mg tar and 1.1 mg nicotine. American Lights were test marketed by American Tobacco in September, 1988.

II. HUMECTANTS ANALYSIS

A. Objective: To increase efficiency of the gas chromatograph used for humectants analysis.

B. Results: Humectants analyses are performed on a HP5880A GC with 30-meter x 0.53 mm ID DB-WAX megabore columns. The analysis time is about 45 minutes per sample. The installation of a 5-meter x 0.53 mm ID deactivated, uncoated fused-silica guard column before the analytical column resulted in a decrease in the analysis time to 25 minutes per sample.

C. Plans: The Analytical Methods Manual method for humectants in smoke will be updated to incorporate this modification.

III. FILTRONA SMOKING MACHINE

A. Objective: To install a Filtrona 20-port CO smoking machine and implement its use for routine testing.

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B. Results: Evaluation of the Filtrona 20-port CO smoking machine is complete. Monitor 25 results from the Filtrona were 14.3 mg/cigt. CO. The target value is 14.4 mg/cigt. CO. Data from C.I. brands for three months showed comparable results between the Filtrona and the Phipps and Bird smoking machine.

C. Plans: The Filtrona will be used for generating CO delivery of routine C.I. samples beginning May, 1989.

IV. DYNAMIC RTD/VENTILATION

A. Objective: To obtain the capability of generating RTD and ventilation data on cigarettes while smoking.

B. Results: The instrument was delivered on April 13, 1989. Software modifications are being made to achieve the proper output graphically and numerically. The instrument collects data from each of the five ports sequentially for RTD and ventilation. The data are collected on a per puff and per rod basis. Dynamic profiles are plotted following a smoking run.

C. Plans: To continue testing this instrument to assure consistent operation using monitor cigarettes.

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